

Claims

What is claimed is:

1. An electrical connector for a fuel injector assembly comprising:

a base portion, a stem portion and at least one electrical contact extending

5 from the base portion to the stem portion; and

said base portion having a front wall, a bottom wall, two side walls, and a sleeve extending between the side walls of said base portion and cooperating with a locking pin to secure the electrical connector to a fuel injector assembly.

10 2. The electrical connector of claim 1, wherein said base portion and said stem portion are integrally formed from a single polymer mold.

15 3. The electrical connector of claim 1, wherein said base portion including deformable crush pads that deform as said base portion is inserted into a connector cavity in a fuel injector assembly to provide a tight fit between the electrical connector and the fuel injector assembly

20 4. The electrical connector of claim 1, wherein the sleeve has tapered ends such that an outer face of the tapered end is flush with the sidewall of said base portion and an inner face of the tapered end lies within said base portion; and

the outer face of the tapered end has a larger diameter than the inner face of the tapered end, and the inner face of the tapered end has a diameter slightly larger than the diameter of the locking pin so that the locking pin may bend within the sleeve.

25 5. The electrical connector of claim 1, wherein the ends of the sleeve are recessed within the body of the base portion.

30 6. The electrical connector of claim 1, wherein the sleeve of said base portion has sleeve openings that are offset from corresponding openings in a connector cavity of the fuel injector assembly, and insertion of the locking pin into the sleeve